



ADEC Solid Waste Program







Landfill Inspection Scoring

0% - 100%

The higher the inspection score, the more protective the landfill is being of human health and the environment

The lower the inspection score, the less protective the landfill is being of human health and the environment

	Community Waste Management Index								
	Special Waste Management							COMMENTS	
#	Category	0	1	2	3	4	5		Score
	Salvage Area	Public salvaging, if allowed, must be limited to an area that does not hinder facility operation, create a safety hazard, or cause pollution. 18 AAC 60.220							
6		Uncontrolled salvaging allowed at working face	Salvaging at working face only when operator present	Separate salvage area, no apparent organization or management	Separate salvage area, some organization or management.	Salvage area has defined locations for different items, fluids are drained or contained (liner), operated safely	Salvage area managed well (see 4), items removed for disposal or backhaul regularly - signs posted		
		Separating used oil out of the waste disposed at the landfill will help keep petroleum products out of the landfill and the environment, and can be reused as an energy resource for the community.							
7	Used Oil	Used oil not managed - disposed at the landfill	Some used oil collected, not stored safely, no plan for disposal or energy recovery	Some used oil collected, not stored safely, burned without energy recovery	Used oil collected, stored safely. Burned without energy recovery	Used oil collected and safely stored. Burned for energy recovery or shipped out	Enforcement of used oil collection and safe storage. Burned for energy recovery in an EPA approved unit or shipped out		
		Vehicles may not be disposed at the landfill unless all fluids and batteries have been removed. If undrained vehicles are stored at the landfill for later disposal or recycling, they must be managed to prevent release of fluids. 18 AAC 60.035, 18 AAC 60.010							
8	Vehicles	Uncontrolled disposal - Vehicles disposed in landfill, fluids & batteries not removed	Vehicles stored in separate area of landfill, no fluids or batteries removed. No containment for leaks. No plans for disposal or recycling	Vehicles stored in separate area of landfill, some fluids or batteries removed. No containment for leaks. Plans for disposal or recycling	Vehicles stored in separate area of landfill, some fluids or batteries removed. Containment for leaks. Plans for disposal or recycling	All batteries and fluids removed prior to proper disposal or recycling	Operator verifies ALL batteries and fluids removed prior to proper disposal or recycling		
		Chlorofluorocarbon (CFCs) must be removed from appliances by a certified technician with certified equipment prior to disposal at any landfill. No CFCs may be vented to the environment. 40 CFR 81.154-162							
9	Freezers & Refrigerators CFCs	Disposed of with general waste, CFCs intentionally vented to the environment	Disposed of with general waste, no CFCs removed	Some units segregated, no CFCs removed and no plan	Some units segregated, some CFCs removed but no document	Units segregated, CFCs sporadi	Hair		

Setting Realistic Goals

No one expects you to jump from a 0 to a 5 right away

- Start small
- Focus on realistic incremental improvements you can do
- Look for low cost solutions- i.e. make signs yourself with materials you already have
- Give yourself time to reach your goals
- Outreach and education, i.e. informing the community, goes a long way
- Everyone was new once- it's ok to give yourself time to improve

Helpful hint: A good place to start is with IGAP. If your City and Tribe are not communicating & collaborating- start there!

Landfill Site Control

- •Landfill Site Control
- Signage
- Access Control

Landfill access and onsite roads under the operator's control must be kept passable and safe for vehicles during normal hours of operation, 18 AAC 60,220

Landfill Road Maintenance

Landfill not accessible for more than one month per year

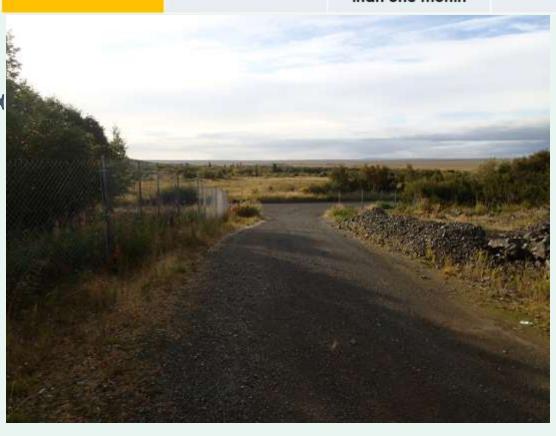
Landfill usually accessible, roads barely passable, history of being inaccessible for more than one month

Landfill generally accessible year round, history of being round, history of minor inacessible for less than one month

Landfill generally accessible year problems

Landfill accessible year round, roads to and in landfill occasionally maintained

landfill accessible year round, roads to and in landfill actively maintained





A clearly legible sign must be posted at the entrance to the landfill. The sign must prohibit disposal of regulated hazardous waste and polychlorinated

	biphenyl (PCB) waste. Signs should identify the owner or operator, hours of operation, and emergency contacts. Signs should also direct users where to dispose of special wastes. 18 AAC 60.240							
	0	1	2	3	4	5		
Signage	No signs at the landfill	Signs in poor condition, unreadable	Basic information on where to dump waste and/or entrance sign	Basic information on where to dump waste and list of prohibited waste and/or entrance sign	Information on where to dump waste, list of prohibited waste, entrance sign, and burning instructions (if applicable)	Detailed information on where to dump waste, list of prohibited waste, complete entrance sign, burning instructions (if applicable), and alternative disposal methods		





More Signage







Signage That Went From a 5 to a 0 and Then Back to 5

2016

NORTH SLOPE BOROUGH DEPARTMENT OF

WAINWRIGHT MUNICIPAL SOLID WASTE COLLECTION AND SORTING STATION 907-763-2915 Hours of Operation Monday - Friday



Signage Template









Quiz: Somethings not quite right. Can you find it?

Access to the landfill facility must be limited by the use of fencing, berms, or natural barriers to control public access to the site. This should prevent unauthorized traffic or dumping. 18 AAC 60.220

Access Control

No fence/barriers, open access, no restrictions

Barriers in poor condition, open access

Barriers in repairable condition, open access

Functional barriers, but open gates, open access Functional barriers, locking gate, restricted hours Functional barriers, locking gates, restricted hours, monitored





More Access Control



HOURS OF OPERATION

Tuesday & Friday

9:00 am - 5:00 pm (Closed 12:00 - 1:00 pm)

Burning

- Waste Separation
- •Burn Management
- •Burn Unit Used

Burning of plastics, asphalts, rubber, tars, oily wastes, or other materials in a way that gives off black smoke is prohibited. 18 AAC 50.065(b)

Waste Separation

No separation waste

of waste

Minimal separation Some separation of waste

Most wastes separated

Most wastes separated, separated waste properly disposed

All wastes separated & strictly monitored, all separted waste properly disposed





Burning of plastics, asphalts, rubber, tars, oily wastes, or other materials in a way that gives off black smoke is prohibited. 18 AAC 50.065(b)

Waste Separation

No separation waste Minimal separati of waste

Minimal separation of of waste Some separation of waste

Most wastes separated

Most wastes separated, separated waste properly disposed

All wastes separated & strictly monitored, all separted waste properly disposed





Burning must be contained and controlled and managed to minimize adverse environmental effects and limit the amount of smoke generated. 18 AAC 60.233, 18 AAC 60.355, 18 AAC 50.065(b)

Burn Management No management of burning - evidence of large fires throughout the landfill

No burn management evidence of small fires in the landfill

Burn unit or trench Burn unit or trench loaded by users, lit by users

loaded by users, lit by operator

Burn unit loaded and lit only by operator in appropriate weather

Complete management: waste kept dry; burn unit loaded, lit & monitored only by operator in appropriate weather





Complete management: waste kept dry; burn unit loaded, lit & monitored only by operator in appropriate weather

Burning must be contained and controlled and managed to minimize adverse environmental effects and limit the amount of smoke generated. 18 AAC 60.233, 18 AAC 60.355, 18 AAC 50.065(b)

Burn Management No management of burning - evidence of large fires throughout the landfill

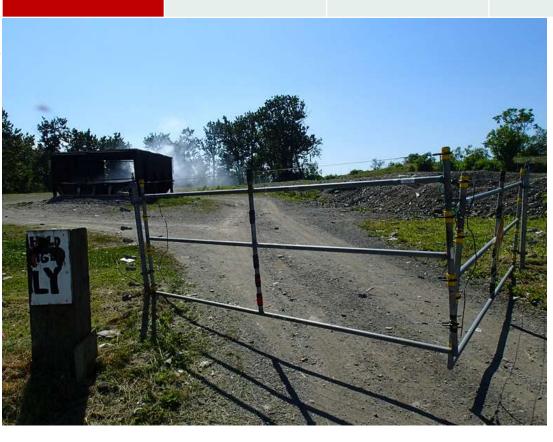
No burn management evidence of small fires in the landfill

Burn unit or trench loaded by users, lit by users

Burn unit or trench loaded by users, lit by operator

Burn unit loaded and lit only by operator in appropriate weather

Complete
management:
waste kept dry;
burn unit
loaded, lit &
monitored only
by operator in
appropriate
weather





Uncontained burning of municipal waste on the ground is not allowed at Class III landfills. Burning may be conducted in a burn box, burn cage, or other device where burning is contained and controlled. 18 AAC 60.233, 18 AAC 60.355

Burn Unit Type

Burn unit onsite -No burn unit or use.

Functioning burn limited functionality box or burning in a trench

Burn cage

Enclosed burn unit with smoke stack

Incinerator







Uncontained burning of municipal waste on the ground is not allowed at Class III landfills. Burning may be conducted in a burn box, burn cage, or other device where burning is contained and controlled. 18 AAC 60.233, 18 AAC 60.355

Burn Unit Type

Burn unit onsite -No burn unit or use.

Functioning burn limited functionality box or burning in a trench

Burn cage

Enclosed burn unit with smoke stack

Incinerator





Landfill Operations

- Operator
- Equipment
- Working Face
- Compaction
- Cover
- Slopes & Grading

- Vector & Nuisance Control
- Litter
- Maintenance &
 Corrective Action
- Inactive Areas

An operator is one of three elements for a successful landfill program. RALO Operator Operator assigned to Managed Operator assigned to Managed as Managed No operator periodically by landfill, not allocated landfill, emergency only periodically enough hours allocated assigned personnel enough hours





Quiz: Does allocated enough hours mean full time?

	2014	2014	2016	2016
	Points/Possible	Percentage	Points/Possible	Percentage
Landfill Site Control	12/15	80	15/15	100
Burning	11/15	73	14/15	93
Landfill Operations	49/50	98	50/50	100
Landfill Water Impacts	15/15	100	15/15	100
Special Waste	30/30	100	50/50	100
Management				
Administration	16/20	80	19/20	95
Total	133/145	92%	163/165	99



The Golovin landfill was the highest scoring rural landfill in 2016. Golovin also scored higher than some of the large municipal landfills in Alaska, and this is not an insignificant achievement. Golovin is very fortunate to have one of the best Landfill Managers in the State of Alaska, Peter Olson, who has over 30 years of experience in solid waste management.

Quiz: How Many Hours Does Peter Olson Work at the Landfill Every Two Weeks?



Properly sized and maintained equipment is one of three elements for a successful landfill program. RALO

Equipment

No equipment

Broken but repairable equipment

Equipment borrowed emergency only Equipment borrowed - regular schedule Dedicated landfill equipment - not properly stored or maintained

Dedicated
landfill
equipment properly stored
& maintained





W Bootcamp

Maintained









The working face must be kept as small as practical. 18 AAC 60.345

Working Face

No designated working face, waste spread over entire landfill

Some attempt to keep waste to an specific area

Waste mostly in one area of the landfill

Dumping area identified, most waste limited to large dumping area

Dumping area identified, most waste limited to reasonably sized dumping area

Clearly
identified
dumping area,
working face
kept as small as
practical





Working Face- Area Fill





Area fill in a medium and a large village. Note- the working face doesn't have to be tiny, just controlled.

W Bootcamp

Working Face- Continued





Modified area fill in a medium sized village and trench and fill in a large village.

The working face is not tiny, just controlled. Do you agree?

Compaction of waste will reduce the volume and extend the useable life of the landfill, and will reduce infiltration of water that can create leachate.

Compaction

No effort to compact waste, uncontrolled waste equipment available

No effort to compact waste,

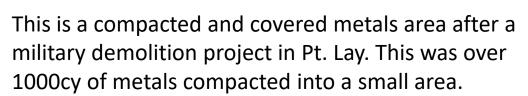
Compaction of waste, with poor results

Compaction of waste 1 - 4 times per year

Compaction of waste more than 4 times per year

Compaction of waste more than 4 times per year with 4-6 passes of large tracked vehicle, waste is well compacted





Compaction Continued



Metals and inert waste cell in Pt. Hope. Last years section of the cell is already compacted and covered.

Cover

No cover applied, no cover available No cover applied, cover available

Cover applied periodically, does not control issues, not stockpiled at landfill

Cover applied periodically, does not control issues, stockpiled at landfill stockpiled at landfill

Cover applied as needed to control issues, cover not



Cover

No cover applied, no cover available No cover applied, cover available

Cover applied periodically, does not control issues, not stockpiled at landfill

Cover applied periodically, does not control issues, stockpiled at landfill stockpiled at landfill

Cover applied as needed to control issues, cover not





Cover

No cover applied, no cover available

No cover applied, cover available

Cover applied periodically, does not control issues, not stockpiled at landfill

Cover applied periodically, does not control issues, stockpiled at landfill stockpiled at landfill

Cover applied as needed to control issues, cover not





After Cover **Before Cover**

Cover

No cover applied, no cover available

No cover applied, cover available

Cover applied periodically, does not control issues, not stockpiled at landfill

Cover applied periodically, does not control issues, stockpiled at landfill stockpiled at landfill

Cover applied as needed to control issues, cover not





Before Cover

After Cover



Cover

No cover applied, no cover available No cover applied, cover available

Cover applied periodically, does not control issues, not stockpiled at landfill

Cover applied periodically, does not control issues, stockpiled at landfill stockpiled at landfill

Cover applied as needed to control issues, cover not





Before Cover

After Cover

Control, Consolidation, Compaction & Cover 4 C's

The entry way into the Golovin landfill is all compacted and covered trash. They will continue this process until the whole landfill looks like the entry way. Only an experienced Landfill Operator who had good control of the landfill could keep this going. Good job Golovin!



The landfill should be graded and sloped to preserve the stability of the landfill and reduce ponding and erosion. 18 AAC 60.390, 18 AAC 60.243

Slopes & Grading

Slopes unstable and ponds at the landfill, no efforts to correct

Slopes unstable and ponds at the landfill, some efforts to correct

Minor issues with instability, ponding, or erosion, no efforts to grade landfill

Minor issues with instability, ponding, or no ponding, erosion, or erosion, some efforts to grade landfill

Landfill graded, instability evident, inadequate run-on or run-off controls

Landfill actively graded to ensure stability, protect from erosion, prevent run-on, and promote runoff of storm or surface water



Berm in front of the trench to prevent water run on into trash. Landfill sloped to control water, with added measures to prevent water intrusion into the trash.



Landfill sloped to an engineered drainage system with erosion control measures in place.

Sloped Landfill Towards Another Engineered Drainage System



Trash is placed at the highest point, furthest away from the drain.

Dust, odor, noise, traffic, other effects from the landfill, and disease vectors, including wildlife and domestic animals, must be controlled so that the public health, safety, or welfare are not endangered or they create a nuisance. 18 AAC 60.230, 18 AAC 60.233

Vector & Nuisance Control

Waste exposed to elements - flies, animals, humans, through waste

Few issues controlled, vector or health and vehicles track issues, and nuisance issues present

Some issues controlled, minor vector or health issues, and nuisance issues present

Most issues controlled, minor nuisance issues present

Issues controlled public allowed in landfill

Issues controlled only operator allowed in landfill

Issues controlled – only operator allowed in the landfill



This is an example of a "5" that is the absence of a problem. It's easier to show what it's not.



W Bootcamp

What it's Not







See all the black dots? Flies- thousands of flies Fish racks were only a few hundred feet away

Litter must be controlled so that it does not become a nuisance or hazard. 18 AAC 60.233, 18 AAC 60.345

Litter (in and around landfill)

Litter everywhere, no clean-up efforts

Annual litter clean-up, litter uncontrolled rest of the year

Litter issues, picked up intermittently throughout the year

Some litter issues, No litter issues, litter picked up regularly

litter picked up as operator picks needed

No litter issues, up litter as needed





This is another area where a "5" is the asbsence of a problem. Note-this does not mean there isn't any litter at all- they are landfills. It means that it is controlled so that it doesn't cause an issue. A good way to evaluate your landfill is to ask yourself- "Is it only on the inside of the landfill?"

The landfill must maintain structures and components of the facility, and repair any structural changes or damage to the facility. 18 AAC 60.815

Maintenance & Corrective Action

may impact health, safety or the for corrective action

Significant damage that Significant damage that Significant damage that may impact health, safety or the environment, no plan environment, corrective environment, corrective action planned

may impact health, safety or the action underway

Minor damage at the facility, no plan for corrective action

Minor damage at the facility, corrective action planned

No structural damage



The fence was in a state of disrepair in 2014 during the inspection. It was replaced in 2015, and photographs were sent in to ADEC.

Next Inspection- Now No Structural Damage







The landfill must maintain structures and components of the facility, and repair any structural changes or damage to the facility. 18 AAC 60.815

Maintenance & Corrective Action

may impact health, safety or the for corrective action may impact health, safety or the action planned

Significant damage that Significant damage that Significant damage that may impact health, safety or the environment, no plan environment, corrective environment, corrective action underway

Minor damage at the facility, no plan for corrective action

Minor damage at the facility, corrective action planned

No structural damage





This is What Corrective Action of Structural Damage Looks Like Was This Planned? Yes!

Areas that have not received waste for more than 90 days, but have not yet reached the final capacity or elevation, must receive an intermediate cover. The area must be covered with 12 inches of soil and graded to prevent ponding and erosion. 18 AAC 60.243 Note, this is not closure. If an area is closed or should be under a closure plan, it should have 24" of soil cover and be revegetated.

Inactive Areas

No distinction between active & inactive areas

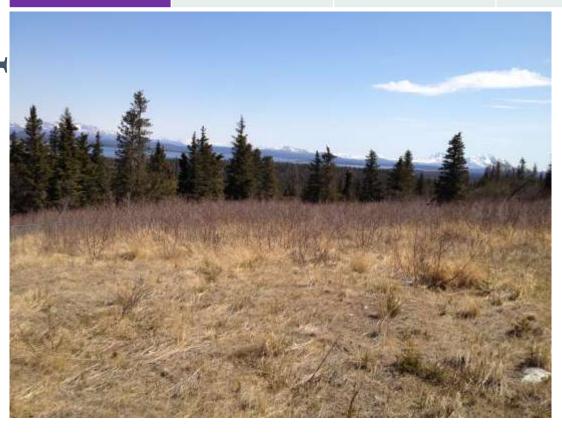
Inactive area separate from working face uncovered

Inactive areas separate from working face partially covered

Inactive areas separate from working face covered with less than 12"

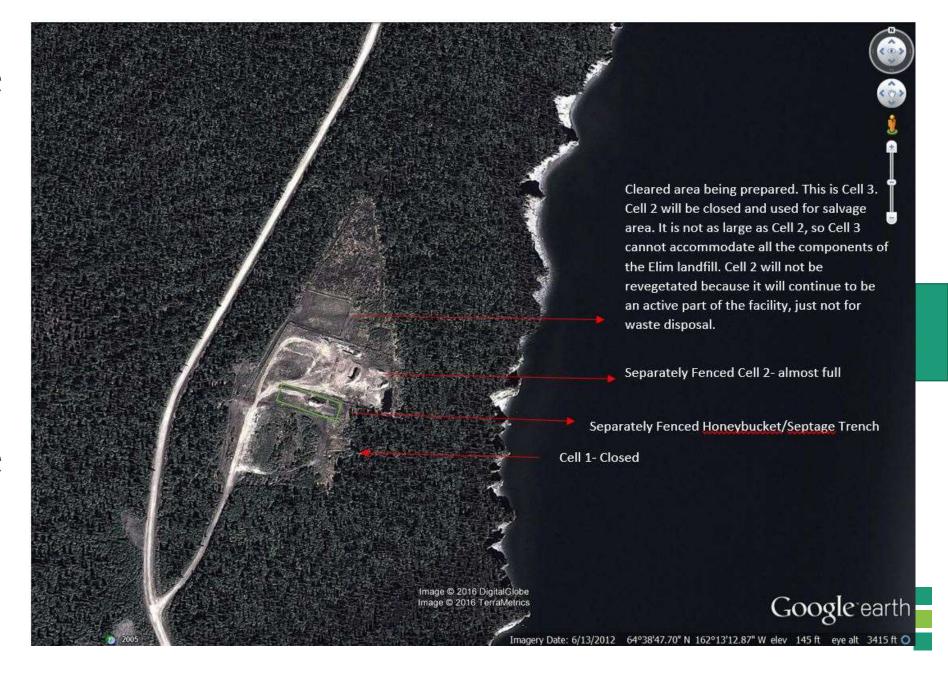
Inactive areas separate from working face fully covered with 12", covered with 12", not graded to prevent ponding or erosion

Inactive areas separate from working face - fully graded to prevent ponding and erosion





Inactive Areas Over Time: Cell 1 Cell 1 Inactive for 15 > Years



Landfill Water Impacts

- Leachate
- Surface & Storm Water Controls
- •Impact to Permafrost or Wetlands
- Water Monitoring (If Required)

		•	•	•	m solid waste and cor evented, or contained	•			
	Leachate	Leachate seeps present, no effort to contain or control	Leachate seeps present, some effort to contain or control	No leachate seeps observed, conditions likely to cause leachate, no effort to contain leachate	No leachate seeps observed, conditions likely to cause leachate, some effort to contain leachate	No leachate seeps observed, conditions likely to cause leachate, efforts to contain and prevent leachate	No leachate seeps observed, efforts in place to prevent leachate		
		A landfill must be constructed and operated so that seasonal flooding is temporary in duration. Waste may not be placed in surface water. The landfill must minimize contact between stormwater and waste. Ponded water must be removed within 30 days. 18 AAC 60.225							
Juna		Waste disposed into water body	Waste in contact with water regularly, no surface and storm water controls	Waste in contact with water, some surface and storm water controls, not effective	Some waste in contact with water, surface and storm water controls, ponding not removed within 30 days	the landfill, surface and storm water controls,	No evidence of waste in water or ponding at the landfill, berms, ditches and other controls are in place and are effective		
	Impact to	If the landfill is located on permafrost, it must be designed and operated so that the permafrost remains frozen. If the landfill settles and water is pooling, the operator must take corrective action. 18 AAC 60.227 If the landfill is located in or near a wetland, it may not cause or contribute to significant degradation of the wetlands. 18 AAC 60.315							
	facilities built on permafrost or	Permafrost appears to be melting around landfill; or wetland plants around landfill are clearly impacted - no corrective action plan	Permafrost or wetlands impacted - corrective action plan under development	Permafrost or wetlands impacted - corrective action underway but no evidence of improvement	Permafrost or wetlands impacted - corrective action in place has shown improvement	No clear impacts to permafrost or wetlands, but some indicators (small ponds, leachate, etc.) present	No indicators or impact to permafrost or wetlands are evident		

This is another section where a "5" is the absence of something. Unfortunately there are plenty of examples of what it's not.



W Bootcam

Leachate Seep











issues. There can be significant consequences to local soils, subsistence resources, and water resources.

Leachate Surface & Storm Water Controls Impact to Permafrost or Wetlands

Old Landfill New Landfill



Now That We Showed What It's Not- Here's a Reminder of What It Should Look Like ©

Special Waste Management

- Septage
- Animal Carcasses including Subsistence Waste
- Household Hazardous Waste
- Liquid Waste
- Salvage Area
- Used Oil
- Vehicles
- Freezers & Refrigerators CFC's
- Lead Acid Batteries



Septage including Honeybucket

Waste

The landfill may accept septage or honey bucket waste if it is deposited into separate trenches, less than 4' in depth, and the trench is maintained not to overflow. Hydrated lime must added to a pH of 12(30 min.) on a regular basis. 18 AAC 60.365

Septage co-mingled with MSW

Septage disposed in separate area of landfill

Septage in separate trench no lime added

Septage in properly constructed trench, lime added infrequently

Septage in properly constructed trench, lime added on a regular trench, lime added basis

Septage in properly constructed and pH tested





Animal Trench Looks The Same



Lime- Critical for Both Septage & Animal Carcasses





It is perfectly acceptable to dispose of subsistence wastes in a traditional way. Landfill disposal is not mandatory.

Household **Hazardous Waste** (HHW)

Separating HHW out of the waste disposed at the landfill will help keep chemicals out of the landfill and reduce risks to human health and the environment. HHW can be reused within the community or shipped out for proper disposal.

No HHW separation

No HHW separation, regularly covered

HHW collection program available, accessible, but not well used

HHW collection program available, accessible, most HHW diverted from landfill

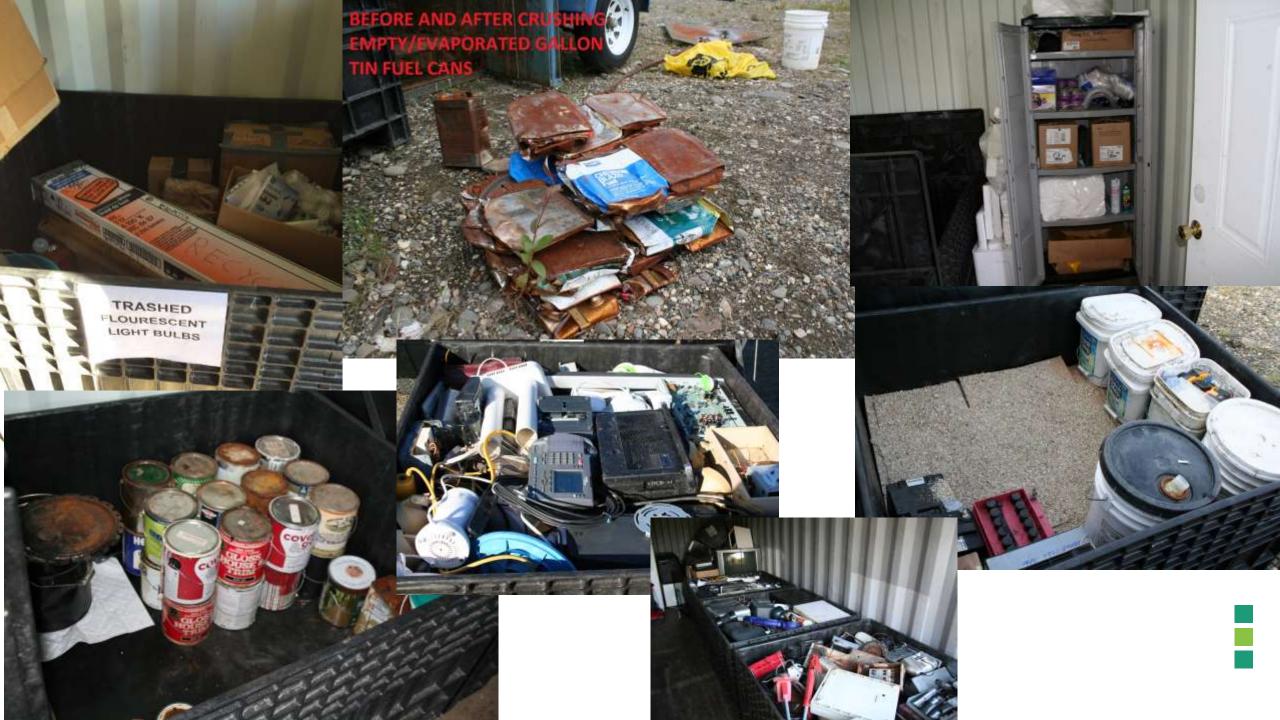
Clear options for HHW reuse or collection program, well run, most program, well run, **HHW diverted from** landfill

Clear options for HHW reuse or collection diverted from landfill, shipped out as needed









Recycling Center







Liquid waste, including kitchen grease, may not be disposed at the landfill, with the exception of small quantities (1 gallon or less) of containerized waste. 18 AAC 60.360

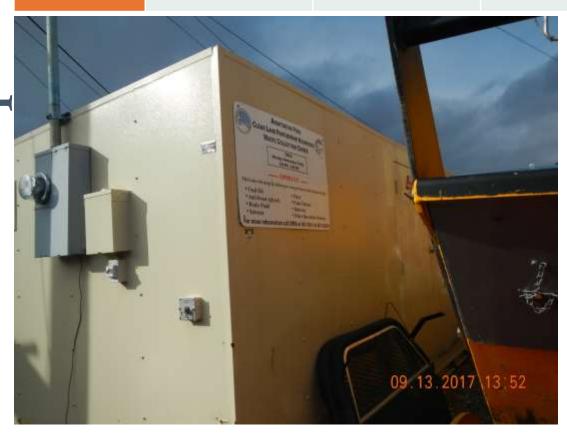
Liquid Waste

Non-household liquids over 1 gallon containers disposed in landfill Free liquids not prohibited, but limited to less than 1 gallon container

Free liquids prohibited at landfill, alternatives not well identified Free liquids prohibited at landfill, alternatives identified, not well used

Free liquids prohibited at landfill, alternatives identified, generally used

Free liquids prohibited and enforced, alternatives identified, and widely used





Construction & Demolition Debris (C&D) non-RACM

C&D is regulated based on local laws and ordinances. However, all construction projects should submit a building survey to ensure that all hazardous & asbestos waste are removed prior to disposal. Non-RACM waste must be handled so that it does not become friable and be covered within 24 hours without compaction to prevent the release of asbestos fibers. 18 AAC 60.450

No controls for C&D. indiscriminately disposed, no requirements for identifying or managing non-RACM

C&D disposed at working face. no awareness or management of non-**RACM**

C&D disposed at working face or separate cell, awareness of non-RACM, not covering

face or in separate cell, not well managed - large pile. Aware of non-RACM, usually covered in 24 hours

C&D disposed at working C&D well managed, not frequently compacted. Contractors required to identify non-RACM - not allowed or is properly managed and covered in 24 hours

C&D well managed and compacted frequently - small pile. Contractors required to identify non-RACM - not allowed or is properly managed

North Slope Borough PUBLIC WORK

Application for Direct Landfill



APPLICANT INFORMATION

Applicants Name WITE CONSTRUCTION
Conjuny OVEC CONSTRUCTION (REMANNE NITIES)
Address 6700 MESTEC SPUR RD ANGUIDRAGE AK 99510
Day Time Plane: 907-855-1400 Home Plane: 907-855-7400
Vehicle Description UTC SEME & TRATLER
License Plate Namber: N/A

Approval of applications will be authorized only for the materials described below in the quantities shown. NSB Public Work will attempt to meet the requested schedule for delivery, however regularly scheduled operations and unexpected conditions may take precedence over the permitted delivery. Adverse weather conditions will delay receipt of

WASTE INFORMATION

explicit formattiff water - N.J.C.	- 40 MAN CAMP
Type of Material to be disposed of:	ATCO MODULAR BLOG'S
Volume of Material to be disposed:	8, MODILLAR BLDGS
Requested Date and Time for disposal:	

Delivery of wastes will be coordinated with NSB Public Work's personnel. No wastes will be delivered without NSB Public Work's landfill personnel present at the landfill Wastes will be deposited in the active waste cell where directed by NSB Public Work's

The North Slope Borough does not assume responsibility for materials delivered to the landfill that are bazardous in nature. Costa associated with removal, proper disposal and landfill remediation shall be the sole burden of the parties involved in the infraction of the North Slope Borough Ordinances.

This application can only be signed by an authorized representative in direct understanding of wastes to be disposed and with the authority to obligate corporate assets for the purpose of remediation activities should hazardous waste be disposed

CERTIFICATION

I have read and understand the North Slope Borough Barrow Landfill Zoning Permit and the above conditions for direct disposal of waste in the Barrow Landfill. I hereby certify that I have knowledge of the wastes, that either I or my designee will deliver to the landfill, and that no listed hazardous wastes will be bauled to the landfill for disposal. In addition, should hazardous wastes be delivered to the landfill, I understand the costs associated with this, as well as have the authority to mobilize labor, equipment, and materials needed to effect a complete remediation of the landfill, and shall accept all imposed fines related to this infraction.

W		
ON APPON	/FD	
011711101	LD	
ON REJEC	TED	
ION		
		ON APPOVED ON REJECTED

Date

C&D is regulated based on local laws and ordinances. However, all construction projects should submit a building survey to ensure that all hazardous & asbestos waste are removed prior to disposal. Non-RACM waste must be handled so that it does not become friable and be covered within 24 hours without compaction to prevent the release of asbestos fibers. 18 AAC 60.450

Construction & Demolition Debris (C&D) non-RACM

No controls for C&D, indiscriminately disposed, no requirements for identifying or managing non-RACM

C&D disposed at working face, no awareness or management of non-RACM

C&D disposed at working face or separate cell, awareness of non-RACM, not covering C&D disposed at working face or in separate cell, not well managed - large pile.

Aware of non-RACM, usually covered in 24 hours

C&D well managed, not frequently compacted. Contractors required to identify non-RACM not allowed or is properly managed and covered in 24 hours

C&D well managed and compacted frequently - small pile. Contractors required to identify non-RACM - not allowed or is properly managed





Public salvaging, if allowed, must be limited to an area that does not hinder facility operation, create a safety hazard, or cause pollution. 18 AAC 60.220

Salvage Area

Uncontrolled salvaging allowed at working face

Salvaging at working face only when operator present

Separate salvage area, no apparent organization or management

Separate salvage area, some organization or management. Salvage area has defined locations for different items, fluids are drained or contained (liner), operated safely

Salvage area managed well (see 4), items removed for disposal or backhaul regularly - signs posted





Public salvaging, if allowed, must be limited to an area that does not hinder facility operation, create a safety hazard, or cause pollution. 18 AAC 60.220

Salvage Area

Uncontrolled salvaging allowed at working face

Salvaging at working face only when operator present

Separate salvage area, no apparent organization or management

Separate salvage area, some organization or management. Salvage area has defined locations for different items, fluids are drained or contained (liner), operated safely

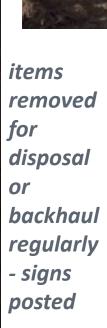
Salvage area managed well (see 4), items removed for disposal or backhaul regularly - signs posted

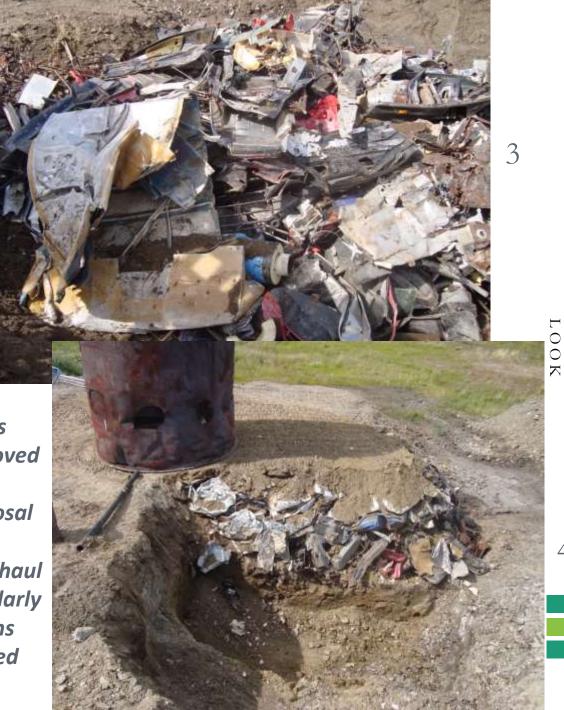












Separating used oil out of the waste disposed at the landfill will help keep petroleum products out of the landfill and the environment, and can be reused as an energy resource for the community.

Used Oil

Used oil not managed disposed at the landfill

not stored safely, no plan for disposal or energy recovery

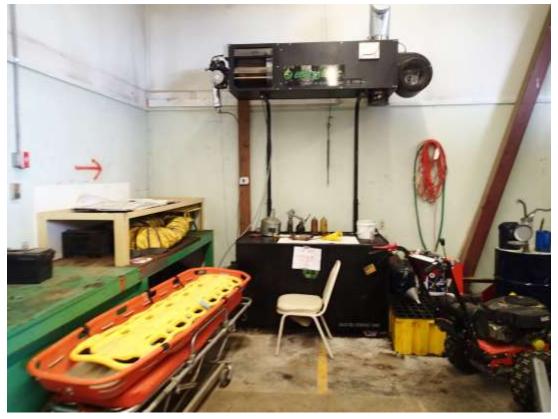
Some used oil collected, Some used oil collected, not stored safely, burned without energy recovery

Used oil collected, stored safely. Burned without energy recovery

Used oil collected and safely stored. Burned for energy recovery or shipped out

Enforcement of used oil collection and safe storage. **Burned for energy** recovery in an EPA approved unit or shipped out





Vehicles may not be disposed at the landfill unless all fluids and batteries have been removed. If undrained vehicles are stored at the landfill for later disposal or recycling, they must be managed to prevent release of fluids. 18 AAC 60.035, 18 AAC 60.010

Vehicles

Uncontrolled disposal -Vehicles disposed in landfill, fluids & batteries not removed

Vehicles stored in no fluids or batteries removed. No containment for leaks. No plans for disposal or recycling

Vehicles stored in separate area of landfill, separate area of landfill, separate area of landfill, some fluids or batteries removed. No containment for leaks. Plans for disposal or recycling

Vehicles stored in some fluids or batteries removed. Containment for leaks. Plans for disposal or recycling

All batteries and fluids removed prior to proper disposal or recycling

Operator verifies ALL batteries and fluids removed prior to proper disposal or recycling





Freezers & Refrigerators **CFCs**

Chlorofluorocarbon (CFCs) must be removed from appliances by a certified technician with certified equipment prior to disposal at any landfill. No CFCs may be vented to the environment. 40 CFR 81.154-162

Disposed of with general waste, CFCs intentionally vented to the environment

Disposed of with general waste, no CFCs removed

Some units segregated, no CFCs removed and no plan

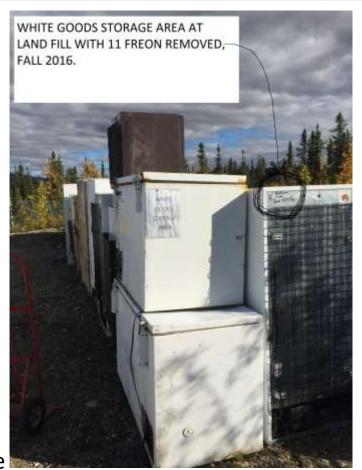
Some units segregated, some CFCs removed but no documentation or marking

Units segregated, CFCs ALL CFCs regularly sporadically removed by certified tech & documented, properly disposed or recycled

Units segregated, removed by certified tech & documented, properly disposed or recycled



Jerry Sam, TCC Solid Waste Specialist. He is a certified technician using certified equipment that drains CFC's from their villages white goods.



Lead Acid

Batteries

Prohibiting disposal of lead acid batteries from the landfill will reduce the risks of environmental contamination. Batteries should be stored in a lined, covered container or area, and managed to prevent any release to the environment.

Lead acid batteries disposed in landfill

Some lead acid batteries segregated but poorly stored at landfill

Most lead acid batteries segregated but poorly stored

Most lead acid batteries segregated and stored to prevent leaks, but not covered

All lead acid batteries segregated, properly stored

All lead acid batteries segregated, properly stored, and regularly shipped out





Can Be Collected Outside- But it Better Be Bone Dry on the Inside ©





Administration

- Permit
- Monthly Visual Monitoring
- Operations Plan
- Facility Location

You Guessed It!
This is the Planning & Paperwork Section.

Administration- In Summary- Be Like Patricia







W Bootcamp

Questions?



